

New Claims (Attorney Docket No. LeA 36 230)

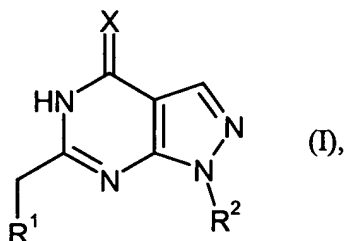
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13. (New) The process of claim 5, wherein the sulfurizing agent is diphosphorus pentasulfide.

Amended Claims (Attorney Docket No. LeA 36 230)

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1. (Original) A compound of the formula



in which

R<sup>1</sup> is phenyl which is substituted by 1 to 5 substituents independently of one another selected from the group of halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, trifluoromethyl, trifluoromethoxy, cyano, hydroxy, nitro and C<sub>1</sub>-C<sub>6</sub>-alkoxy,

R<sup>2</sup> is pentan-3-yl, C<sub>4</sub>-C<sub>6</sub>-cycloalkyl,

X is oxygen or sulfur,

and the salts, solvates and/or solvates of the salts thereof.

2. (Original) A compound as claimed in claim 1, where

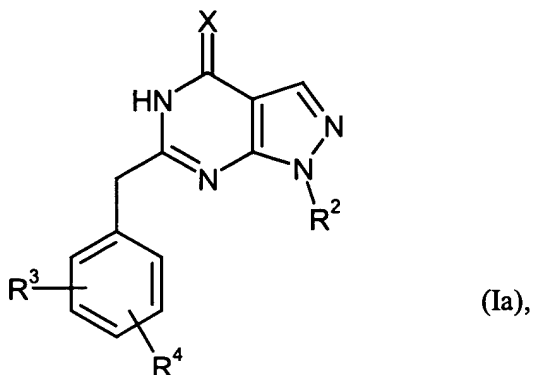
R<sup>1</sup> is phenyl which is substituted by 1 to 3 substituents independently of one another selected from the group of fluorine, chlorine, bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, trifluoromethyl, trifluoromethoxy, cyano, hydroxy, nitro and C<sub>1</sub>-C<sub>4</sub>-alkoxy,

R<sup>2</sup> is pentan-3-yl, C<sub>5</sub>-C<sub>6</sub>-cycloalkyl,

X is oxygen or sulfur,

and the salts, solvates and/or solvates of the salts thereof.

3. (Currently amended) A compound as claimed in ~~claims claim 1 and 2~~ claim 1 of the formula



in which

R<sup>3</sup> is hydrogen or chlorine,

R<sup>4</sup> is fluorine, chlorine, bromine, methyl, trifluoromethyl,

R<sup>2</sup> is pentan-3-yl, cyclopentyl,

X is oxygen or sulfur,

and the salts, solvates and/or solvates of the salts thereof.

4. (Currently amended) A compound as claimed in ~~claims claim 1 to 3~~ claim 1 of the formula (Ia),  
where

R<sup>3</sup> is hydrogen or chlorine,

R<sup>4</sup> is fluorine, chlorine, bromine, methyl, trifluoromethyl,

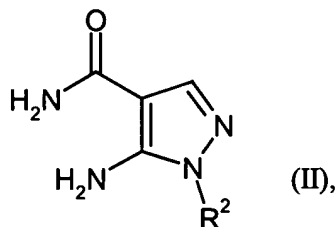
R<sup>2</sup> is pentan-3-yl, cyclopentyl,

X is oxygen,

and the salts, solvates and/or solvates of the salts thereof.

5. (Currently amended) A process for preparing compounds as claimed in claim 1, characterized in that

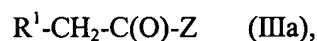
[A] compounds of the formula



in which

$R^2$  has the meanings indicated in claim 1,

are converted by reaction with a compound of the formula



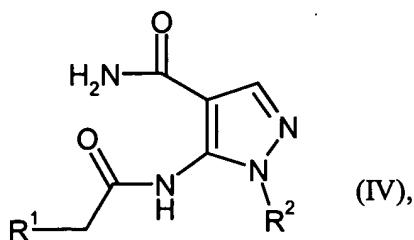
in which

$R^1$  has the meanings indicated in claim 1,

and

Z is chlorine or bromine,

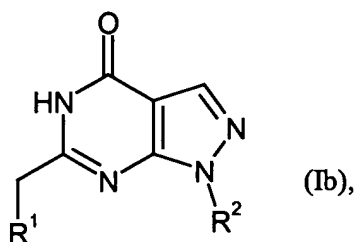
initially in the presence of a base into compounds of the formula



in which

$R^1$  and  $R^2$  have the meanings indicated in claim 1,

then cyclized in the presence of a base to compounds of the formula

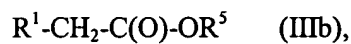


in which

$R^1$  and  $R^2$  have the meanings indicated in claim 1,

or

[B] compounds of the formula (II) are reacted with direct cyclization to (Ib) with a compound of the formula



in which

$R^1$  has the meanings indicated in claim 1,

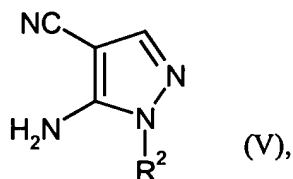
and

$R^5$  is methyl or ethyl,

in the presence of a base,

or

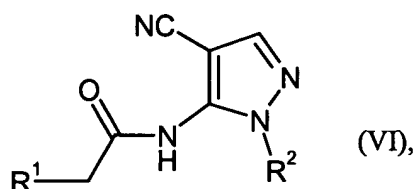
[C] compounds of the formula



in which

$R^2$  has the meanings indicated in claim 1,

are converted initially by reaction with a compound of the formula (IIIa) in the presence of a base into compounds of the formula

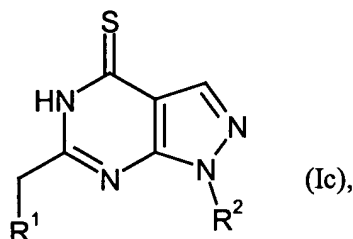


in which

R<sup>1</sup> and R<sup>2</sup> have the meanings indicated in claim 1,

and the latter are cyclized in a second step in the presence of a base and of an oxidizing agent to (Ib),

and the compounds of the formula (Ib) are then converted where appropriate by reaction with a sulfurizing agent such as, for example, diphosphorus pentasulfide into the thiono derivatives of the formula



in which

R<sup>1</sup> and R<sup>2</sup> have the meanings indicated in claim 1,

and the resulting compounds of the formula (I) are reacted where appropriate with the appropriate (i) solvents and/or (ii) bases or acids to give the solvates, salts and/or solvates of the salts thereof.

6. (Cancelled).
7. (Original) A medicament comprising at least one of the compounds as claimed in any of claims 1 to 4 and at least one pharmaceutically acceptable, essentially non-toxic carrier or excipient.
8. (Currently amended) ~~The use of the compounds as claimed in any of claims 1 to 4 for producing a medicament~~ A method for the prophylaxis and/or treatment of impairments of

perception, concentration, learning and/or memory comprising administering to a human or animal an effective amount of a compound of claim 1.

9. (Currently amended) The ~~use~~ method as claimed in claim 8, where the impairment is a consequence of Alzheimer's disease.
10. (Currently amended) ~~The use of the compounds as claimed in any of claims 1 to 4 for producing a medicament~~ A method for improving perception, concentration, learning and/or memory comprising administering to a human or animal an effective amount of a compound of claim 1.
11. (Cancelled).
12. (Cancelled).